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1 [Enhancing the security of corporate Wi-Fi networks using DAIR](#)

☒ [Paramvir Bahl, Ranveer Chandra, Jitendra Padhye, Lenin Ravindranath, Ma Wolman, Brian Zill](#)

June 2006 **MobiSys '06**: Proceedings of the 4th international conference on applications and services

Publisher: ACM ☒ [Request Permissions](#)

Full text available: ☒ Pdf (302.26 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 95, Downloads (12 Months): 426, Citatic

We present a framework for monitoring enterprise wireless networks us infrastructure. The framework is called DAIR, which is short for *Dense & Inexpensive Radios*. We demonstrate that the DAIR framework is useful

Keywords: 802.11, denial-of-service, rogue AP, security, wireless netw

2 [Scheduling best-effort and real-time pipelined applications on time-s](#)

☒ [Yanyong Zhang, Anand Sivasubramaniam](#)

July 2001 **SPAA '01**: Proceedings of the thirteenth annual ACM symposium algorithms and architectures

Publisher: ACM ☒ [Request Permissions](#)

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Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 40, Citation

Two important emerging trends are influencing the design, implementat deployment of high performance parallel systems. The first is on the arc where both economic and technological factors are compelling the use c

Keywords: clusters, coscheduling, parallel scheduling, simulation

3 [The effects of active queue management and explicit congestion not performance](#)

[Long Le, Jay Aikat, Kevin Jeffay, F. Donelson Smith](#)

December 2007 **IEEE/ ACM Transactions on Networking (TON)**, Volume


Publisher: IEEE Press

Full text available:  Pdf (825.19 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 115, Citation

We present an empirical study of the effects of active queue management explicit congestion notification (ECN) on the distribution of response times of users browsing the Web. Three prominent AQM designs are considered: Proportional ...

4 [A taxonomy and design considerations for Internet accounting](#)

 Michel Kouadio, Udo Pooch

November 2002 **SIGCOMM Computer Communication Review**, Volume 32

Publisher: ACM


Full text available:  Pdf (113.51 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 79, Citation

Economic principles are increasingly being suggested for addressing issues related to distributed resource allocation for QoS (Quality of Service) and proposals have been put forth, including various strategies from Pricing

Keywords: accounting architecture, classification, pricing

5 [Web100: extended TCP instrumentation for research, education and](#)

 Matt Mathis, John Heffner, Raghu Reddy

July 2003 **SIGCOMM Computer Communication Review**, Volume 33 Issue

Publisher: ACM


Full text available:  Pdf (215.29 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 52, Citation

TCP has become the dominant protocol for all network data transport because it provides a simple uniform data delivery service which is sufficient for most application types of lower network layers. By its very nature, TCP's adaption and re


Keywords: Net100, TCP Performance, Web100, instrumentation

6 [Outdoor experimental comparison of four ad hoc routing algorithms](#)

 Robert S. Gray, David Kotz, Calvin Newport, Nikita Dubrovsky, Aaron Fiske, Christopher Masone, Susan McGrath, Yougu Yuan

October 2004 **MSWiM '04: Proceedings of the 7th ACM international symposium on wireless and mobile systems**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (148.16 KB) Additional Information: [full citation](#), [abstract](#), [referer](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 76, Citation

Most comparisons of wireless ad hoc routing algorithms involve simulated runs, or outdoor runs with only a small number of nodes, potentially leading to an incorrect picture of algorithm performance. In this paper, we report on


Keywords: 802.11, MANET, mobile computing, wireless ad hoc routing

7 [Enhancing location privacy in wireless LAN through disposable interl
quantitative analysis](#)

[Marco Gruteser](#), [Dirk Grunwald](#)

June 2005 **Mobile Networks and Applications** , Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available:  [Pdf](#) (2.31 MB) Additional Information: [full citation](#), [abstract](#), [referer](#)
[terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 107, Citations

The recent proliferation of wireless local area networks (WLAN) has introduced location privacy risks. An adversary controlling several access points can determine a client's position. In addition, interface identifiers uniquely identify each

Keywords: location privacy, wireless LAN

8 [Tunable reliable multicast for periodic information dissemination](#)

[Tina Wong](#), [Thomas Henderson](#), [Randy H. Katz](#)

January 2002 **Mobile Networks and Applications** , Volume 7 Issue 1

Publisher: Kluwer Academic Publishers


Full text available:  [Pdf](#) (420.83 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 12, Citations

Existing reliable transport protocols for periodic information dissemination ignore application semantics while attempting to be 100% reliable. "Application Framing" (ALF) suggests that taking application semantics into account in transport ...

Keywords: bandwidth constraint, content delivery, power constraint, resource allocation, wireless device

9 [Cooperative run-time management of adaptive applications and distributed](#)

 [Christian Poellabauer](#), [Hasan Abbasi](#), [Karsten Schwan](#)

December 2002 **MULTIMEDIA '02: Proceedings of the tenth ACM international conference on Multimedia**

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (434.38 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 40, Citations

This paper presents *Q-fabric*, which is a set of lightweight, kernel-level mechanisms for cooperative, distributed resource management and system/application adaptation. The basis of Q-fabric is its kernel-level, anonymous, asynchronous event-driven architecture.

Keywords: OS services, QoS management, adaptation, event service

10

[A Flow Control Framework for Improving Throughput and Energy Efficiency in CSMA/CA based Wireless Multihop Networks](#)

[Jaya Shankar Pathmasuntharam](#), [Amitabha Das](#), [Prasant Mohapatra](#)

June 2006 **WOWMOM '06**: Proceedings of the 2006 International Symposium on Wireless, Mobile and Multimedia Networks


Publisher: IEEE Computer Society

Full text available:  [Pdf](#) (302.49 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 36, Citation

In a CSMA/CA based multihop wireless network, excessive interference potential forwarding node causes severe blocking and reduction in throughput. Unbalanced interference forces the node to consume more time receiving rather than transmitting.

11 [Packet-level diversity - from theory to practice: an 802.11-based experimental investigation](#)

 [Evangelos Vergetis](#), [Eric Pierce](#), [Marc Blanco](#), [Roch Guérin](#)

September 2006 **MobiCom '06**: Proceedings of the 12th annual international conference on Mobile computing and networking

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (351.90 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 85, Citation

Packet-level diversity, or distributing packet transmissions over multiple channels, offers benefits in improving communication performance and reducing the impact of channel variations. Previous works have analyzed and quantified those benefits.


Keywords: 802.11, channel diversity, open-loop, robustness

12 [A wireless sensor network For structural monitoring](#)

 [Ning Xu](#), [Sumit Rangwala](#), [Krishna Kant Chintalapudi](#), [Deepak Ganesan](#), [Al Govindan](#), [Deborah Estrin](#)

November 2004 **SenSys '04**: Proceedings of the 2nd international conference on Sensor networks and networked sensor systems

Publisher: ACM  [Request Permissions](#)


Full text available:  [Pdf](#) (731.28 KB) Additional Information: [full citation](#), [abstract](#), [referer](#), [terms](#)

Bibliometrics: Downloads (6 Weeks): 61, Downloads (12 Months): 444, Citation

Structural monitoring---the collection and analysis of structural responses under forced excitation---is an important application of networked embedded systems with significant commercial potential. The first generation of sensor networks


Keywords: Wiscen, sensor network, structural health monitoring

13 [From formal models to formally based methods: an industrial experience](#)

 [Emanuele Ciapessoni](#), [Piergiorgio Mirandola](#), [Alberto Coen-Porisini](#), [Dino Morzenti](#)

January 1999 **Transactions on Software Engineering and Methodology** Volume 8 Issue 1

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (239.61 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 105, Citations


We address the problem of increasing the impact of formal methods in industrial computer applications. We summarize the reasons why formal methods did not gain widespread use within the industrial environment despite se

Keywords: formal models, industrial applications, object orientation, supervision and control, technology transfer

14 Video-based rendering


 [Marcus Magnor](#), [Marc Pollefeys](#), [German Cheung](#), [Wojciech Matusik](#), [Christi](#)
July 2005 **SIGGRAPH '05: SIGGRAPH 2005 Courses**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (5.15 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 263, Citations

15 Dagstuhl perspectives workshop on end-to-end protocols for the future

 [Jari Arkko](#), [Bob Briscoe](#), [Lars Eggert](#), [Anja Feldmann](#), [Mark Handley](#)
March 2009 **SIGCOMM Computer Communication Review**, Volume 39 Issue

Publisher: ACM

Full text available:  Pdf (144.99 KB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 65, Citations


This article summarises the presentations and discussions during a workshop on end-to-end protocols for the future Internet in June 2008. The aim of the workshop is to establish a dialogue at the interface between two otherwise fairly distinct

Keywords: architecture, control, cross-layer

16 AIDA: Adaptive application-independent data aggregation in wireless sensor networks

 [Tian He](#), [Brian M. Blum](#), [John A. Stankovic](#), [Tarek Abdelzaher](#)
May 2004 **Transactions on Embedded Computing Systems (TECS)**, Volume

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.02 MB) Additional Information: [full citation](#), [abstract](#), [reference terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 133, Citations

Sensor networks, a novel paradigm in distributed wireless communications, have been proposed for various applications including military surveillance, environmental monitoring. These systems deploy heterogeneous collection nodes capable of

Keywords: Data aggregation, adaptive algorithms, congestion control, energy conservation, feedback control, sensor networks

Hardware-dependent software synthesis for many-core embedded s
Samar Abdi, Gunar Schirner, Ines Viskic, Hansu Cho, Yonghyun Hwang, Lo
Gajski

January 2009 **ASP-DAC '09: Proceedings of the 2009 Conference on Asia a**
 Design Automation

Publisher: IEEE Press

Full text available:  Pdf (255.12 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 48, Citator

This paper presents synthesis of Hardware Dependent Software (HdS) f
 many-core designs using Embedded System Environment (ESE). ESE is
 developed at UC Irvine, for transaction level design of multicore embedd
 HdS ...

18 Towards a Real-Time Reference Architecture for Autonomic System

Bogdan Solomon, Dan Ionescu, Marin Litoiu, Mircea Mihaescu

May 2007 **SEAMS '07: Proceedings of the 2007 International Workshop on**
 Engineering for Adaptive and Self-Managing Systems

Publisher: IEEE Computer Society

Full text available:  Pdf (191.84 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 72, Citation

Autonomic computing aims to embed automation in IT management sof
 can adapt to changes in the configuration, provisioning, protection, and
 utilization variations of the IT infrastructure at run time. It is, therefore,

19 Design Optimization of Multi-Cluster Embedded Systems for Real-Ti

Paul Pop, Petru Eles, Zibo Peng, Viacheslav Izosimov, Magnus Hellring, Ol

February 2004 **DATE '04: Proceedings of the conference on Design, au**
test in Europe - Volume 2 , Volume 2


Publisher: IEEE Computer Society

Full text available:  Pdf (192.08 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)
[terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 12, Citation


We present an approach to design optimization of multi-cluster embedd
 consisting of time-triggered and event-triggered clusters, interconnecte
 this paper, we address design problems which are characteristic to mult

20 Firefly-inspired sensor network synchronicity with realistic radio effec

 Geoffrey Werner-Allen, Geetika Tewari, Ankit Patel, Matt Welsh, Radhika N

November 2005 **SenSys '05: Proceedings of the 3rd international conferenc**
 networked sensor systems

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (564.48 KB) Additional Information: [full citation](#), [abstract](#), [referer](#)
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Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 189, Citatic





Synchronicity is a useful abstraction in many sensor network applicatio
 scheduling, coordinated duty cycling, and time synchronization can mak
 synchronicity primitive that achieves a tight alignment of individual nod

Keywords: biologically inspired algorithms, pulse-coupled oscillators, s
wireless sensor networks

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